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served as president of the Rochester Academy of Science from 1889 to 1891, secretary of Geological Society of America from 1890 to 1906, and president of the society in 1912. He was chairman of a section of geology of the American Association for the Advancement of Science in 1898 and is a member of its executive committee. Professor Fairchild is an authority in glacial and dynamic geology.

SCIENTIFIC NOTES AND NEWS

PROFESSOR JOHN C. MERRIAM, of the University of California, was elected president of the Carnegie Institution of Washington on May 25, to succeed Dr. R. S. Woodward, who will retire at his own request at the end of the year, after sixteen years of service. Dr. Merriam is professor of paleontology and dean at the University of California. He was last year acting chairman of the National Research Council.

At the annual meeting of the American Academy of Arts and Sciences held on May 12, it was voted upon the recommendation of the Rumford Committee to award the Rumford Premium to Dr. Irving Langmuir, of the General Electric Co., for his researches in thermionic and allied phenomena.

At a stated meeting of the Franklin Institute on May 19 the Franklin Medals were presented to Sir Auckland Geddes, British ambassador for the Honorable Sir Charles A. Parsons, Newcastle-on-Tyne and to His Excellency, Mr. A. W. F. Ekengren, minister of Sweden for Professor Svante August Arrhenius, of the Nobel Institute, Stockholm. Papers were read on "Some Reminiscences of Early Days of Turbine Development," by Sir Charles A. Parsons and on "The World's Energy Supply," by Professor Arrhenius.

THE Société de Pathologie Exotique has elected the following members from the United States: Dr. S. Flexner, Rockefeller Institute, associate member, already corresponding member; Dr. B. H. Ransom, U. S. Bureau of Animal Industry, corresponding member.

PROFESSOR HIRAM BINGHAM has been decorated by the French government with the

Ordre de l'Etoile Noire, grade of officer, for his services in France during the war. Dr. Bingham was recently elected an alternate-at-large to the Republican National Convention to be held in Chicago in June.

PROFESSOR A. D. WILSON, director of the division of agricultural extension of the college of agriculture of the University of Minnesota, has declined the post of assistant secretary of agriculture, tendered him by the Secretary of Agriculture, E. T. Meredith.

At its meeting on May 12 the Rumford Committee of the American Academy of Arts and Sciences voted an appropriation of \$200 additional to former appropriations to Professor Norton A. Kent, of Boston University, in aid of his research on spectral lines.

CHARLES W. TRIGG, incumbent of the Coffee Fellowship at the Mellon Institute of Industrial Research, while still retaining his former connection, has moved to Detroit, Michigan, to assume charge of the chemical department of the donors, the King Coffee Products Corporation.

GENERAL W. C. GORGAS has left for England accompanied by Brigadier-General Robert E. Noble. They will proceed to West Africa to study what is alleged to be an outbreak of yellow fever in that district.

DR. LOUISE PEARCE, of the Rockefeller Institute for Medical Research, has sailed for England and Belgium *en route* to the Belgian Congo for the purpose of studying the chemotherapy of African sleeping sickness.

MR. FRANK C. BAKER, curator of the Museum of Natural History of the University of Illinois, will spend the months of July and August in making a survey of the molluscan fauna of Winnebago Lake, Wisconsin, in the interests of the Wisconsin Geological and Natural History Survey. Material will also be obtained for the exhibits and research collections of the Illinois University Museum. Winnebago Lake is similar in origin to the large Oneida Lake in New York, which Mr. Baker surveyed several years ago for the College of Forestry at Syracuse University, and a comparison of the faunas of the two bodies

of water is expected to add to our knowledge concerning the life of shallow lakes.

GOVERNOR SMITH of New York, has announced the appointment of five commissioners of the Enfield Falls Reservation, the property recently conveyed to the state by Mr. and Mrs. Robert H. Treman, of Ithaca. They are Robert H. Treman, giver of the reservation; Liberty Hyde Bailey, of Ithaca, former dean of the New York State College of Agriculture; Mayor Edwin C. Stewart, of Ithaca; George A. Blauvelt, former state senator, and William E. Leffingswell, of Watkins, former assemblyman.

THE council of the British Institution of Civil Engineers has made the following awards for papers read and discussed during the session 1919-20: Telford gold medals and Telford premiums to Mr. David Lyell, Mr. J. K. Robertson, and Major-General Sir Girard M. Heath; a George Stephenson gold medal and a Telford premium to Mr. Maurice F. Wilson; a Watt gold medal and a Telford premium to Mr. P. M. Crosthwaite; and Telford premiums to Major E. O. Henrici, Sir Francis J. E. Spring, Mr. F. O. Stanford, Mr. J. Mitchell, Mr. J. W. Sandeman, and Dr. A. R. Fulton.

DR. COLIN G. FINK, of New York, recently lectured before the graduate students in chemistry of Yale University on "The Organic Chemistry of Metal Carbides" and on "Contact Catalysis."

UNDER the auspices of the Southwestern Division of the American Association for the Advancement of Science, Mrs. M. D. Sullivan gave a lecture, entitled "Scientific Research and the Library," at the Carnegie Public Library of El Paso, Texas, on May 20 and on May 27, Professor Daniel Hull, assistant superintendent of the El Paso High School, gave a lecture on "The Einstein Theory of Relativity," at the Chamber of Commerce.

DR. E. B. ROSA, chief physicist of the Bureau of Standards delivered an address on May 20 before the Washington Academy of Sciences on "The Economic Value of Scientific Research by the Government."

THE Linacre lecture of the University of Cambridge was delivered on May 6, by Dr. Henry Head on "Aphasia and Kindred Disorders of the Speech."

DR. JOHN NELSON STOCKWELL, of Cleveland, known for his contributions to mathematical astronomy, at one time professor in the Case School of Applied Science, died on May 18, aged eighty-eight years.

GEORGE GILBERT POND, dean of the School of Natural Science of Pennsylvania State College, died at Hartford. He was born in Holliston, in March 1861. For five years he was instructor in chemistry at Amherst and then became a professor in the same department. He left Amherst to accept the appointment with the Pennsylvania State College.

DR. H. P. BARROWS, who resigned recently as professor of agricultural education at the Oregon Agricultural College and as state supervisor of agricultural education under the Smith-Hughes act to accept the position of federal regional agent for agricultural education with headquarters at San Francisco, died at San Francisco, on May 3.

DEATHS of scientific men are recorded in *Nature* as follows: John Alexander McClelland, professor of experimental physics in University College, Dublin, and known for his researches on secondary radio-activity; T. G. Bartholomew, the head of the cartographical firm which has been known since 1899 as the Edinburgh Geographical Institute; Rudolph Messel, president of the Society of Chemical Industry and past vice-president of the Chemical Society, London; L. T. O'Shea, professor of applied chemistry in the University of Sheffield and honorary secretary of the British Institution of Mining Engineers, and A. K. Huntington, emeritus professor of metallurgy at King's College, London.

THE Civil Service Commission announces an examination for supervising metallurgist. A vacancy in the Bureau of Mines, Department of the Interior, for service in the field, at \$4,000 to \$5,000 a year, will be filled from this examination.

THE U. S. Civil Service Commission announces an examination for assistant for fishery food laboratory. A vacancy in the Bureau of Fisheries, Department of Commerce, Washington, D. C., at \$2,000 to \$2,400 a year, and vacancies in positions requiring similar qualifications, will be filled from this examination. The duties of appointees will be to make analyses of fishery products, including canned products, oils, fish scrap, fish meal, etc., and to aid in the technology of development of methods of preservation and utilization of fishery products in the laboratory and in the field. Competitors will not be required to report for examination at any place, but will be rated on education, experience and a thesis.

THE Ellen Richards Research prize offered by an association of American college women, hitherto known as the Naples Table Association, is available for the year 1921. This is the tenth prize offered. The prize has been awarded four times, twice to American women and twice to English women. The competition is open to any woman in the world who presents a thesis written in English. The thesis must represent new observations and new conclusions based upon laboratory research.

THE Indiana Academy of Science held its annual spring meeting at the McCormack's Creek Gorge State Park near Spencer, Ind., on May 13 and 14. At the business meeting on the thirteenth the academy voted to direct the officers to prepare a suitable clause amending the constitution of the academy, so that affiliation with the American Association for the Advancement of Science would be possible. Final action on this matter will, in all probability, be taken at the regular winter meeting next December. The academy members dined together in the dining rooms of the Christian Church at Spencer on the evening of the thirteenth and early the next morning proceeded by automobile to the State Park, where, under the leadership of Professor Malott, of Indiana University, who has made a special study of the region, the members explored the Flatwoods district and the gorge of McCormack's creek, which drains it. Pro-

fessors Mottier and Scott, of Indiana University, led the botanists and zoologists on the trip.

DURING the past year the following papers have been presented before the Society of the Sigma Xi at the University of California under the presidency of Professor Herbert M. Evans:

- September 27, *Research behind the battle line*: J. H. HILDEBRAND.
- October 29, *The processes of social phenomena*: A. L. KROEBER.
- November 20, *A study of anger and pugnacity*: G. M. STRATTON.
- December 9, *Low temperature research*: W. H. RODEBUSH.
- January 28, *Hookworm and military efficiency*: C. A. KOFOID.
- February 18, *The effect of alkali on plants*: D. R. HOAGLAND.
- March 3, *On the construction of a geological scale for the Great Basin of North America*: J. C. MERRIAM.
- March 24, *Physiological studies on aviators*: J. L. WHITNEY.
- April 21, *Recent research in the organic compounds of nitrogen*: T. D. STEWART.
- May 5, *Some aspects of the development of the anatomical sciences in America*: H. H. EVANS.

CREATION of a Canadian Bureau of Scientific Research, at an initial cost of \$600,000 for the site and construction and equipment of the building, and \$50,000 for the first year's salaries and upkeep, has been endorsed. The leader of the Government and of the Opposition both supported it. The standardization of all measures used in Canada of length, volume, weight, etc., of all forms of energy and of scientific apparatus used in industry and the public services will be one of the main functions of the Bureau of Research.

THE *Journal* of the American Medical Association quotes from the *Progresos de la Clínica* of Madrid giving the royal decree establishing the Instituto Cajal as a center for scientific research in different branches of biology, and to prepare students to carry on research in other countries. The institute is also to offer facilities to a limited number of foreign re-

search workers, especially those from Latin America, and will invite foreign professors to lecture on their specialties. The new institution will include the laboratories already installed in 1901 for biologic research and the laboratories maintained for research on experimental physiology, neuropathology and histology. A new building is planned and the whole will form a part of the National Institute of Sciences.

IN order to stimulate more general research along the lines of better preparation and packing of foods and beverages, and to increase our knowledge of such changes induced by preparation or storage of such products, the Glass Container Association of America, Dr. A. W. Bitting, director of research, 3344 Michigan Avenue, Chicago, Ill., will make seven awards in value from \$50 to \$150 for theses submitted prior to June 10, 1921. A thesis may cover any phase of the subject of foods or beverages—technological, bacteriological, or chemical. It may treat of any legitimate method of preparation, as sterilization by heat, pasteurization, salting, drying, smoking, pickling, sugaring, etc., the product to be packed in glass. The thesis may be bibliographical with abstracts, or may be a translation from work along the lines indicated. Any student working for a degree in any college or university is eligible to compete.

THE proceedings of the Paris Congress of Physiology under the presidency of Professor Charles Richet, will begin on Friday, July 16, and will end on the following Tuesday. The last congress was held at Groningen in September, 1913, and it was then decided that the next should be held in Paris. The subscription (35 francs) should be sent to M. Lucien Bull, l'Institut Marey, Avenue Victor-Hugo, Boulogne-sur-Seine (Seine).

UNIVERSITY AND EDUCATIONAL NEWS

IN recognition of the great and increasing need for competent specialists in the medical

sciences, a new course leading to the degree of doctor of medical sciences (D.M.S.) has been established at the Harvard Medical School. The first two years' work of this course is substantially identical with that of the regular medical students and this general training in the medical sciences is followed by a minimum of two years of concentration work in one of the laboratory departments. The qualifications and character of work required of those admitted to the concentration course are essentially the same as for Ph.D. students. The granting of the D.M.S. degree will be based on the same standard.

IT has been planned for some time to found a university at Cologne. *The Journal* of the American Medical Association reports that the necessary formalities were complied with last year, and the new university has recently come into being very quietly. The various colleges and institutes have thus been collected into a state university which offers a chance to relieve the overcrowding of the university at Bonn. The new university starts with 2,000 students and over forty instructors.

PROFESSOR CECIL H. PEABODY, head of the department of naval architecture, the Massachusetts Institute of Technology, has resigned after thirty-seven years. Dr. Peabody has been in charge of the marine engineering course since its formation in 1883. Professor J. R. Jack will succeed Professor Peabody.

DR. WILLIAM E. FORD, of Yale University, has been promoted to a professorship of mineralogy and has been made a member of the governing board of the Sheffield Scientific School.

DR. H. E. WELLS, formerly professor of chemistry at Washington and Jefferson College and captain in the Chemical Warfare Service, U. S. A., has been appointed professor of chemistry at Smith College.

DR. J. P. MUSSELMAN, of Washington University, St. Louis, has been appointed associate in mathematics at the Johns Hopkins University. Dr. Musselman is the national president of the Gamma Alpha Graduate Scientific Fraternity.